



ACCELERATE

Advancing UAVs technology to Enable monitoring for A sustainable environment

Deliverable: “D1.1 Data Management Plan”

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Disclaimer of warranties

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Acronyms and Abbreviations

DMP – Data Management Plan

DoA - Description of the Action

UC – Use case

WP – Work package

FAIR- Findable, Open, accessible, Interoperable and Re-usable

QM - Quality Manager

PI – Principal Investigator

Executive summary

This deliverable aims to collect information about the data sources, data management and data itself that the ACCELERATE project consortium will work with. This deliverable has been compiled with the collaborative work among the consortium partners who are involved in data collection, production and processing. The scope of the Data Management Plan (DMP) is to compile a description of the data management life cycle for all data sets and to specify which data will be findable, openly accessible, interoperable and re-usable (FAIR). It also includes information about legal issues, privacy and maintenance. More specifically, for each work package (WP), the partners have to define the data sources and formats they will use and create a Data Management Plan. Following the FAIR template, datasets are analyzed, providing answers about how the data will be managed within the project and also describing how it will be providing as much open and re-usable data as possible from the execution with the purpose of facilitating to others the reuse of such data.

The DMP is a live document and will be regularly updated as more information becomes available and data issues are resolved.

The deliverable is structured in the following chapters:

- Chapter 1: Introduction;
- Chapter 2: Methodology;
- Chapter 3: DMP components in ACCELERATE work packages;
- Chapter 4: Summary.

1. Introduction

The Deliverable D1.3 - Data Management Plan is the first version of the DMP for the purposes of ACCELERATE project. The goal of the ACCELERATE project is to establish a highly inter-discipline and inter-sectoral ecosystem that aims to increase UAV technology towards enabling its contribution in sustainable environmental decision making. The specific project objectives are to: a) Create a continuously updated ecosystem with UAV datasets suitable for environmental studies and climate change impact assessment, b) promote technological advances in the field of UAVs, offering a framework for an all-inclusive sustainability assessment, by exploiting the unique capabilities of those data with state-of-the-art methodologies and software/hardware tools developed during the projects' lifetime, c) to provide indicators directly connected to the sustainability assessment on the use of UAVs state of the art hardware and software technologies; and d) establish clear guidelines and homogenized protocols for the characterization of the exploitation of UAVs in specific applications and in sustainability assessment of their use in specific applications.

2. Methodology

The methodology employed herein to prepare the first DMP entailed the following steps (1) the first draft of the deliverable (version 0.1) was prepared from HUA and the project's Quality Manager (QM) (Petros Masouridis, Waltr), (2) each WP leader reviewed the DMP aspects of their WP (version 0.2) (iii) after obtaining feedback from each WP leader the DMP was shared amongst the project's beneficiaries and associated partners (version 0.3) and (iv) the final version of the DMP was submitted to the European Union for review after careful examination from the project Principal Investigator (PI) and the projects QM. Each reviewing cycle was given adequate time to examine carefully the deliverable.

In terms of the DMP methodology that was followed, the project utilized the methodological DMP framework that has been established by the European Commission - Directorate-General for Research & Innovation in

February 2016 within “Guidelines on FAIR Data Management in Horizon 2020”. The ACCELERATE DMP addresses the following issues:

- Data summary;
- FAIR data;
- Allocation of resources;
- Data security;
- Ethical aspects;
- Other issues.

In the sections below, a summary of the questions asked per Work Package (WP) is being described.

2.1. Data summary

The Data Summary addresses the following issues:

- What is the purpose of the data collection/generation and how does it relate to the objectives of the project?
- What types and formats of data will the project generate/collect?
- Will you re-use any existing data and how?
- What is the origin of the data?
- What is the expected size of the data?
- To whom might the data be useful (“data utility”)?

2.2. FAIR data

FAIR methodology is a Horizon 2020 methodology dedicated to Data Management Plan. It means that research data should be findable (F), accessible (A), interoperable (I) and re-usable (R). It does not imply any specific technology, standard, or implementation-solution. Within this part, there are going to be introduced specific elements of FAIR terms.

2.2.1. Making data findable, including provisions for metadata

The section “Making data findable, including provisions for metadata” aims to answer the following questions:

- Are the data produced and/or used in the project discoverable with metadata, identifiable and locatable by means of a standard identification mechanism (e.g. persistent and unique identifiers such as Digital Object Identifiers)?
- What naming conventions does it follow?
- Will search keywords be provided that optimize possibilities for re-use?
- Does it provide clear version numbers?

- What metadata will be created? In case metadata standards do not exist in the discipline, outline what type of metadata will be created and how.

2.2.2. Making data openly accessible

Within this section answers for the following questions are going to be provided:

- Which data produced and/or used in the project will be made openly available as the default? If certain datasets cannot be shared (or need to be shared under restrictions), why, clearly separating legal and contractual reasons from voluntary restrictions.
- How will the data be made accessible (e.g. by deposition in a repository)?
- What methods or software tools are needed to access the data?
- Is documentation about the software needed to access the data included?
- Is it possible to include the relevant software (e.g. in open-source code)?
- Where will the data and associated metadata, documentation and code be deposited?
- Have appropriate arrangements with the identified repository been explored?
- If there are restrictions on use, how will access be provided?
- Is there a need for a data access committee?
- Are the terms of access well described (e.g. a machine-readable license)?
- How will the identity of the person accessing the data be ascertained?

2.2.3. Making data interoperable

The section of “making data interoperable” addresses the following issues:

- Are the data produced in the project interoperable, that is allowing data exchange and re-use between researchers, institutions, organizations, countries, etc. (i.e. adhering to standards for formats, as much as possible compliant with available (open) software applications, and in particular facilitating re-combinations with different datasets from different origins)?
- What data and metadata vocabularies, standards or methodologies will you follow to make the data interoperable?
- Will standard vocabularies be used for all data types present in your dataset to enable interoperability across disciplines?

2.2.4. Increase data re-use (through clarifying licenses)

This section addresses the following issues:

- How will the data be licensed to permit the widest possible re-use?
- When will the data be made available for re-use? If an embargo is sought to give time to publish or seek

patents, specify why and how long this will apply, bearing in mind that research data should be made available as soon as possible.

- Are the data produced and/or used in the project usable by third parties, in particular after the end of the project? If the re-use of some data is restricted, explain why.
- For how long is it intended that the data remains re-usable?
- Are data quality assurance processes described?

2.2.5. Allocation of resources

This part of the DMP aims to answer the following questions:

- What are the costs of making data FAIR in your project?
- How will these be covered? Note that costs related to open access to research data are eligible as part of the Horizon 2020 grant (if compliant with the Grant Agreement conditions).
- Who will be responsible for data management in your project?
- Have the resources for long term preservation been discussed (costs and potential value, who decides and how what data will be kept and for how long)?

2.3. Data security

Data Security addresses the following issues:

- What provisions are in place for data security (including data recovery as well as secure storage and transfer of sensitive data)?
- Is the data safely stored in certified repositories for long term preservation and curation?

2.4. Ethical aspects

Ethical aspects address the following issues:

- Are there any ethical or legal issues that can affect data sharing? These can also be discussed in the context of the ethics review. If relevant, include references to ethics deliverables and ethics chapter in the Description of the Action (DoA).
- Is informed consent for data sharing and long-term data preservation obtained through questionnaires that collect personal data?

2.5. Other issues

This section provides an answer for a question:

- Will other national/funder/sectorial/departamental data management procedures be used? If yes, which are they?

3. Data Management Plan (DMP) components in ACCELERATE

3.1. DMP Components in WP1 - Project Management and Coordination

DMP component	Related issues
Data summary	Collecting data within this WP aims to: ● establish management committees and guidelines for their operation, ● provide financial and technical monitoring and reporting standards, ● define risk management, ● establish quality control of deliverables, ● establish administration of Consortium Agreement, ● establish the delivery of all necessary reports including periodic and final project reports. This WP will create and share documents in .docx (draft of final documents and reports) and .pdf formats (final version of the documents and reports). The expected size of the files is not applicable. Moreover, tables (.xlsx/.xls) and text files (.csv) containing auxiliary data used as a source of information for the preparation of specific documents will be created. The expected size of the files is not applicable. However, their size is not supposed to be meaningful. Data within this WP is going to be created by project's participants. Templates provided by European Commission via website are going to be re-used in order to prepare specific document (e.g. in purposes of preparing of this document template provided via https://ec.europa.eu/research/participants/docs/h2020-funding-guide/cross-cutting-issues/open-access-data-management/data-management_en.htm has been used). In general, data which is going to be created within this WP are deliverables. The data will be useful for project's participants and stakeholders due to provision of a legible and clear way of naming and storing deliverables.
FAIR DATA	Making data findable, including Deliverables within this WP are sensitive and they will be

	provisions for metadata	shared only among partners and the European Commission. Deliverables will be also collected using Google Drive project repository managed by HUA. The naming conventions used for these data will be: ●ACCELERATE_DX_Y_TITLE where, DX.Y is the number of the deliverable while TITLE is the deliverable name. As a part of newly created data, metadata will be generated. It will include: ●contributing Work Package names, ●task, ●deliverable Lead, ●authors, ●deliverable type, ●dissemination level, ●version number. It is supposed that within the process of generation data some new/additional parameters for metadata will be included. Appropriate keywords will be included.
	Making data openly accessible	Data desired to be shared to the public will be made publicly available as part of the aforementioned deliverables and through the ACCELERATE website.
	Making data interoperable	N/A
	Increase data re-use	Data will be publicly available as part of the deliverables and could be accessed and re-used by the public indefinitely without a license.
Allocation of resources		No additional costs are foreseen for making this dataset FAIR.
Data security		N/A
Ethical aspects		There are no ethical aspects or legal conditions.
Other issues		N/A

3.2. DMP Components in WP2 - Hardware developments

DMP component	Related issues
Data summary	Work Package 2 (WP2) focuses on the design and development of advanced hardware technologies for UAVs, ensuring alignment with technical, regulatory, and operational requirements as defined by stakeholders. Data collected and generated in this WP directly supports the overall ACCELERATE architecture, including downstream software development (WP3) and demonstration activities (WP4). Key data activities include: ● Researching and identifying the state-of-the-art (SoA) in BVLOS telemetry, IoT communication systems, and atmospheric sensing technologies. ● Collecting end-user needs through surveys, interviews, and co-creation workshops to inform system requirements and KPIs (Task 2.1). ● Generating system specifications, integration blueprints, and prototype data for: ○ A compact atmospheric sensing system (Task 2.2) ○ A BVLOS telemetry module using open-source components (Task 2.3) ○ A satellite IoT communication system using narrowband technologies such as FLARM and ADS-L (Task 2.4) Expected data formats include: ● Documentation: .docx, .pdf (reports, deliverables, system descriptions) ● Structured data: .xlsx, .csv (sensor logs, specification tables, KPI tracking) ● Diagrams and schematics: .png, .svg, or .pdf The file sizes are not expected to be large but will be critical for: ● Hardware-software integration ● System validation and testing

	● Supporting reusability and knowledge transfer across WPs Data may be created, processed, and interpreted by multiple project participants. A data repository inventory will be maintained to describe the type, scope, geographic coverage, and storage requirements of all datasets used or produced within WP2. Overall, WP2 data will form the technical backbone of ACCELERATE's UAV innovations and guide evidence-based decision-making during prototype development and cross-WP integration.
FAIR DATA	Making data findable, including provisions for metadata The data produced either via the online survey or the workshops with the end-users will not be identifiable to the individual respondent. However, there will be metadata that will allow the institution and roles to be identified. This kind of data will be a source of identification of end-users' needs which is going to lead to specification of system requirements. These questionnaires and single responses are not going to be shared with the public. Only summaries and statistics based on that data will be published. Deliverables will be also collected using google drive consortium channel managed by the coordinator (HUA). The naming conventions used for these data will be: ● DX.Y TITLE where, DX.Y is the number of the deliverable while TITLE is the deliverable's name. As a part of newly created data, metadata will be generated. It will include: ● contributing Work Package names, ● task, ● deliverable Lead, ● authors, ● deliverable type, ● dissemination level, ● version number.

		It is supposed that within the process of generation data some new/additional parameters for metadata will be included. Appropriate keywords will be included.
	Making data openly accessible	Only aggregated data and summaries will be made openly accessible, as included in project deliverables. Raw data will remain restricted to protect participant confidentiality.
	Making data interoperable	The data collected and produced within this WP will be used in deliverables both within this WP and across other WPs. Specifically, data from surveys, interviews, and questionnaires will support the identification of end-user needs, which will inform the specification of system requirements and the design of the overall system architecture. Additionally, the inventory and description of data repositories will help determine the data necessary for analysis, processing, modeling, and sharing. To enhance interoperability, all data will be stored in widely used, non-proprietary or open formats (e.g., CSV, XLSX, PDF) compatible with standard software tools such as Excel, LibreOffice, and common text editors. Where applicable, standard vocabularies and terminologies from the environmental monitoring and IoT domains will be adopted to ensure consistency and facilitate data exchange across partners and disciplines. This approach aims to support future integration and re-use of datasets within and beyond the ACCELERATE project.
	Increase data re-use	The raw datasets (e.g., individual responses from surveys, interviews, and questionnaires) will remain confidential and will not be publicly shared due to privacy and ethical considerations. However, aggregated results, insights, and conclusions derived from these raw data will be included in public deliverables (e.g., reports, guidelines) and will be made available through the ACCELERATE website or other repositories. These public outputs will be reusable by third parties without licensing restrictions and will remain accessible indefinitely.
Allocation of resources		No dedicated budget is required for FAIR implementation. Data stewardship and repository usage are handled within WP2, coordinated with the Project Quality Manager. Where needed, open-access publication fees are foreseen under general dissemination funds.
Data security		Data collected through interactions with end-users (e.g., surveys, interviews, and questionnaires) will be stored

	securely throughout the project lifecycle. All data will be hosted on access-controlled repositories or cloud servers compliant with relevant EU regulations (e.g., GDPR), preferably located within the European Economic Area (EEA). Security measures will include encryption both in transit and at rest, regular backups, and strict access control based on role-based access control (RBAC) principles to ensure that only authorized project personnel can access sensitive or restricted data. Audit trails will be maintained where necessary to monitor data access and changes. While raw data is not intended for long-term preservation, good data governance will be upheld during its active use to prevent unauthorized access, loss, or corruption.
Ethical aspects	All data collection involving human participants will: - Be anonymized - Be based on informed consent - Follow GDPR and institutional ethics protocols
Other issues	- Cloud Infrastructure: Final hosting will comply with EU digital sovereignty and data portability standards. - Version Control: Shared drives and version-controlled platforms will ensure consistency. - Prototype Licensing: Where applicable, hardware/firmware developed under WP2 will adopt permissive licenses (e.g., MIT, CERN OHL). - Cross-WP Dependencies: WP2 outputs (e.g., hardware specs, telemetry modules) directly inform WP3 (software) and WP4 (implementation), requiring coordinated timelines and format alignment. - Data Steward: A designated WP2 contact will oversee compliance with the Data Management Plan and coordinate with WP1.

3.3. DMP Components in WP3 - Software development

DMP component	Related issues
Data summary	Collecting data within this WP aims to: - establish specification of system(s) requirements, - design of the overall system(s) architecture. Within this WP documents in .docx (draft of final documents and reports) and .pdf (final versions of

	documents and reports) formats will be created and shared. The expected size of the files is not applicable. Moreover, tables (.xlsx/.xls) and text files (.csv) will be created, containing auxiliary data which is going to be used as a source of information in order to create specific documents. The expected size of the files is not applicable. However, their size is not supposed to be large. Moreover, for AI/ML learning image formats' data shall be collected/created and used. Data within this WP may be created by project's participants. However, this data will be based on data provided by third parties like end-users (through questionnaires, feedback during workshops, interviews) in order to identify their needs. The data regarding the users' needs will provide information with respect to the characteristics of specific roles of the end users (e.g.: researchers, data scientist, data engineers, IT, coordinators, students). This data will be useful for software developers and researchers who wish to find and understand system requirements that form the core of the development process of platforms and tools for remote monitoring. In general, data collected within this WP will be useful for project's participants due to provision of a roadmap for creation of the ACCELERATE system (user needs -> system requirements -> system architecture) and setting software requirements for data processing and performing data analysis and system validation processes, respectively. Within this WP data will be created and shared in: • .docx format - drafts of documents and reports; • .pdf format - final versions of the documents and reports; • .shp, .Json format – • .jp2, .tiff, .nc, .asc – • .rdata, .svc – data analysis and data processing. The expected size of the files is not applicable. However, size of the single files and datasets within this WP can be very large (>1 GB and >10 TB, respectively), so any changes could imply significant increase of the required storage.
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FAIR DATA	Making data findable, including provisions for metadata	The naming conventions for the results of the deliverables will be: ● WP.3.1_Title_VersionNumber_Date_Status where the TITLE will refer to specific deliverable, and Status refers to whether the deliverable is in draft or final state. The following metadata will be created for each deliverable: ● Work Package name. ● Title of the task. ● Work Package lead. ● Author. ● Deliverable type. ● Dissemination details. ● Version number. ● Date.
	Making data openly accessible	● <i>Which data produced and/or used in the project will be made openly available as the default? If certain datasets cannot be shared (or need to be shared under restrictions), why, clearly separating legal and contractual reasons from voluntary restrictions.</i> ● <i>it is also possible for specific beneficiaries to keep their data closed if relevant provisions are made in the consortium agreement and are in line with the reasons for opting out.</i> All the insights, conclusions and solutions developed within this WP will be made publicly available as part of the aforementioned deliverables and through the ACCELERATE website. Input data that were used and are part of beneficiaries' background will be used according to the GA, CA, and/or any other bilateral and or consortium agreement that is the most up to date. ● <i>How will the data be made accessible (e.g. by deposition in a repository)?</i> Zenodo repository. ● <i>What methods or software tools are needed to access the data?</i>

		Data will be accessible through use of computer device, web browser and internet connection. • <i>Is documentation about the software needed to access the data included?</i> Not needed. • <i>Is it possible to include the relevant software (e.g. in open source code)?</i> Yes, unless restricted by Terms of Use and specific agreements. • <i>Where will the data and associated metadata, documentation and code be deposited?</i> Zenodo repository, unless more appropriate solution is selected. • <i>Have appropriate arrangements with the identified repository been explored?</i> Ongoing, to be concluded. • <i>If there are restrictions on use, how will access be provided?</i> To be defined on case-by-case basis. • <i>Is there a need for a data access committee?</i> No. • <i>Are the terms of access well described (e.g. a machine-readable license)?</i> To be defined. • <i>How will the identity of the person accessing the data be ascertained?</i> To be defined.
	Making data interoperable	• <i>Are the data produced in the project interoperable, that is allowing data exchange and re-use between researchers, institutions, organizations, countries, etc. (i.e. adhering to standards for formats, as much as possible compliant with available (open) software applications, and in particular facilitating re-combinations with different datasets from different origins)?</i>

		Yes. • <i>What data and metadata vocabularies, standards or methodologies will you follow to make the data interoperable?</i> To be defined. • <i>Will standard vocabularies be used for all data types present in your dataset to enable interoperability across disciplines?</i> Common formats and standard vocabularies will be used for all data types present in the related dataset. • <i>In case it is unavoidable that it uses uncommon ontologies or generates project specific ontologies or vocabularies, will it provide mappings to more commonly used ontologies?</i> Yes.
	Increase data re-use	• <i>How will the data be licensed to permit the widest possible re-use?</i> Data will be publicly available as part of the deliverables and will be accessed without license, and it can be used for other research by the public. • <i>When will the data be made available for re-use? If an embargo is sought to give time to publish or seek patents, specify why and how long this will apply, bearing in mind that research data should be made available as soon as possible.</i> The data will be available as soon as it reaches its final state and in accordance with the parties of ACCELERATE project. • <i>Are the data produced and/or used in the project usable by third parties, in particular after the end of the project? If the re-use of some data is restricted, explain why.</i> The data can be used by the third parties after the end of the project. • <i>For how long is it intended that the data remains re-usable?</i> For the duration of the project and afterwards according to the allocated resources for the data.

		• Are data quality assurance processes described? To be defined.
Allocation of resources		No additional costs are foreseen for making this dataset FAIR. Yes.
Data security		• What provisions are in place for data security (including data recovery as well as secure storage and transfer of sensitive data)? Regular backup process for the data accompanied with security measures. • Is the data safely stored in certified repositories for long term preservation and curation? Yes.
Ethical aspects		• Are there any ethical or legal issues that can affect data sharing? These can also be discussed in the context of the ethics review. If relevant, include references to ethics deliverables and ethics chapter in the Description of the Action (DoA). No. • Is informed consent for data sharing and long-term preservation included in questionnaires dealing with personal data? Yes.
Other issues		• Will other national/funder/sectorial/departmental data management procedures be used? If yes, which are they? Not at this point.

3.4. DMP Components in WP4 - Case studies Implementation

DMP component	Related issues
Data summary	Data within this WP is going to be used in order to: • defining the requirements and scenarios of the case studies • facilitate the execution, implementation and

	development of the 4 use cases ● assess the performance of the case studies Data will be created and shared in formats like but not limited to: ● .docx format - drafts of documents, reports and training materials; ● .pdf format - final versions of the documents, reports and training materials; ● .shp, .json format – vector type data and results (data dedicated to points and polygons objects); defining area of interest; ● .tiff .netCDF format - raster type data and results (spatial continuously data); ● .nc format – many dimensional spatial continuous data. ● .zarr format - multidimensional data format that accepts parallel reading/writing and access via url The expected size of the files is not applicable. However, size of the single files and datasets within this WP can be very large (>1 GB and >10 TB, respectively), so any changes could imply significant increase of the required storage. The source of the data for WP4 will be from existing open data, background of the partners, new measurements with existing equipment, and/or equipment created in WP2 It will include mainly but not limited: ● meteorological data including reanalysis data (e.g. air temperature, wind speed and direction, snow cover); ● land cover data including DEMs, land cover type, vegetation (forest biomass, canopy closure); ● Drone multispectral imaging data ● drone sniffer data (.s4d, .csv, other) ● GNSS data. The generated data will be useful for end-users and will be an input to the ACCELERATE system. What is more, it will feed the impact assessment WP to provide innovative
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		methodologies and first results to the public.
FAIR DATA	Making data findable, including provisions for metadata	• <i>Are the data produced and/or used in the project discoverable with metadata, identifiable and locatable by means of a standard identification mechanism (e.g. persistent and unique identifiers such as Digital Object Identifiers)?</i> Yes • <i>What naming conventions does it follow?</i> Date(YYYYMMDD)_UseCaseID_DataID_Version_Comments/otherIDs • <i>Will search keywords be provided that optimize possibilities for re-use?</i> Yes • <i>Does it provide clear version numbers?</i> Yes • <i>What metadata will be created? In case metadata standards do not exist in the discipline, outline what type of metadata will be created and how.</i> As a part of new created data, metadata will be generated. Deliverable's metadata will include most of the below case by case: • contributing Work Package names, • task, • use case • deliverable Lead, • authors, • deliverable type, • dissemination level, • version number.

	Making data openly accessible	• <i>Which data produced and/or used in the project will be made openly available as the default? If certain datasets cannot be shared (or need to be shared under restrictions), why, clearly separating legal and contractual reasons from voluntary restrictions.</i> • <i>it is also possible for specific beneficiaries to keep their data closed if relevant provisions are made in the consortium agreement and are in line with the reasons for opting out.</i> All the insights, conclusions and solutions developed within this WP will be made publicly available as part of the aforementioned deliverables and through the ACCELERATE website. Input data that were used and are part of beneficiaries' background will be used according to the GA, CA, and/or any other bilateral and or consortium agreement that is the most up to date. • <i>How will the data be made accessible (e.g. by deposition in a repository)?</i> Data will be available by open repositories, as well as stored by each organisation and accessible by a simple request. • <i>What methods or software tools are needed to access the data?</i> Simple digital tools (eg internet, pc, email) • <i>Is documentation about the software needed to access the data included?</i> no • <i>Is it possible to include the relevant software (e.g. in open-source code)?</i> N/A • <i>Where will the data and associated metadata, documentation and code be deposited?</i> open repositories, as well as stored by each organisation • <i>Have appropriate arrangements with the identified repository been explored?</i> Yes
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		• <i>If there are restrictions on use, how will access be provided?</i> By simple request to the data owner • <i>Is there a need for a data access committee?</i> No • <i>Are the terms of access well described (e.g. a machine-readable license)?</i> N/A • <i>How will the identity of the person accessing the data be ascertained?</i> N/A
	Making data interoperable	• <i>Are the data produced in the project interoperable, that is allowing data exchange and re-use between researchers, institutions, organizations, countries, etc. (i.e. adhering to standards for formats, as much as possible compliant with available (open) software applications, and in particular facilitating re-combinations with different datasets from different origins)?</i> Yes • <i>What data and metadata vocabularies, standards or methodologies will you follow to make the data interoperable?</i> N/A • <i>Will standard vocabularies be used for all data types present in your dataset to enable interoperability across disciplines?</i> N/A • <i>In case it is unavoidable that it uses uncommon ontologies or generates project specific ontologies or vocabularies, will it provide mappings to more commonly used ontologies?</i> There will be used formats and standard vocabularies for all data types present in the datasets, so it could be used by the public.

	Increase data re-use	• <i>How will the data be licensed to permit the widest possible re-use?</i> Data will be publicly available as part of the deliverables and could be accessed and re-used by the public indefinitely without a license. Insights published in scientific papers could be re-used for purposes of another research within the project or used by the public. • <i>When will the data be made available for re-use? If an embargo is sought to give time to publish or seek patents, specify why and how long this will apply, bearing in mind that research data should be made available as soon as possible.</i> Data collected and produced during the ACCELERATE project will be offered openly as soon as possible and/or according to agreements between the parties providing the data and the parties collecting and treating the data. • <i>Are the data produced and/or used in the project usable by third parties, in particular after the end of the project? If the re-use of some data is restricted, explain why.</i> Reuse of results, publications, tools and methodologies delivered from this WP will be open access and free to use during and after the end of the project. • <i>For how long is it intended that the data remains re-usable?</i> At least the duration of the project. After according to resources. • <i>Are data quality assurance processes described?</i> Deliverables and data sets are checked by the Project's Quality manager and each WP/task leader and beneficiaries.
	Allocation of resources	No additional costs are foreseen for making this dataset FAIR.
	Data security	• <i>What provisions are in place for data security (including data recovery as well as secure storage and transfer of sensitive data)?</i> Data is going to be regularly backed up and secured.

	• <i>Is the data safely stored in certified repositories for long term preservation and curation?</i> Yes
Ethical aspects	• <i>Are there any ethical or legal issues that can affect data sharing? These can also be discussed in the context of the ethics review. If relevant, include references to ethics deliverables and ethics chapter in the Description of the Action (DoA).</i> Yes, WP4 involves ethical and legal issues that may affect data sharing, particularly related to personal data from stakeholder interviews and high-resolution UAV imagery. To address this, all personal data will be anonymized or pseudonymized, and data collection will comply with GDPR. Sensitive geospatial information will be filtered to avoid privacy breaches. • <i>Is informed consent for data sharing and long-term preservation included in questionnaires dealing with personal data?.</i> Yes, participants are informed about how their data will be used, stored, and shared, including options for anonymized data to be preserved and reused in compliance with GDPR and the project's Ethics Requirements.
Other issues	• <i>Will other national/funder/sectorial/departmental data management procedures be used? If yes, which are they?</i> N/A

3.5. DMP Components in WP5 - Sustainability assessment (social, economic, environmental)

DMP component	Related issues
Data summary	Collecting data within this WP aims to: • estimate the socio-economic impact systems and UC developed within the ACCELERATE project Within this WP data will be created and shared in: • .docx format - drafts of documents and reports; • .pdf format - final versions of the documents and reports;

		•.shp, .Json format •.jp2, .tiff, .nc,. ascii – •.rdata, .svc – data analysis and data processing. •other The expected size of the files is not applicable. However, size of the single files and datasets within this WP can be very large (>1 GB and >10 TB, respectively), so any changes could imply significant increase of the required storage.
FAIR DATA	Making data findable, including provisions for metadata	• <i>Are the data produced and/or used in the project discoverable with metadata, identifiable and locatable by means of a standard identification mechanism (e.g. persistent and unique identifiers such as Digital Object Identifiers)?</i> Yes • <i>What naming conventions does it follow?</i> Processed results of this WP will be available via ACCELERATE website. The naming conventions used for these data will be: •DX.Y TITLE where, DX.Y is the number of the deliverable while TITLE is deliverable name. • <i>Will search keywords be provided that optimize possibilities for re-use?</i> Yes • <i>Does it provide clear version numbers?</i> Yes • <i>What metadata will be created? In case metadata standards do not exist in the discipline, outline what type of metadata will be created and how.</i> DOI for publications, other data minimum date, author, organization. Scientific papers based on the data generated within this WP, would be published in open access journals. As a part of new created data, metadata will be

		generated. Deliverable's metadata will include: ● contributing Work Package names, ● task, ● deliverable Lead, ● authors, ● deliverable type, ● dissemination level, ● version number. It is supposed that within the process of generation data some new/additional parameters for metadata will be included. Appropriate keywords will be included.
	Making data openly accessible	● <i>Which data produced and/or used in the project will be made openly available as the default? If certain datasets cannot be shared (or need to be shared under restrictions), why, clearly separating legal and contractual reasons from voluntary restrictions.</i> ● <i>it is also possible for specific beneficiaries to keep their data closed if relevant provisions are made in the consortium agreement and are in line with the reasons for opting out.</i> All the insights, conclusions and solutions developed within this WP will be made publicly available as part of the aforementioned deliverables and through the ACCELERATE website. Input data that were used and are part of beneficiaries' background will be used according to the GA, CA, and/or any other bilateral and or consortium agreement that is the most up to date. ● <i>How will the data be made accessible (e.g. by deposition in a repository)?</i> Zenodo repository. ● <i>What methods or software tools are needed to access the data?</i> Data will be accessible with "simple" electronic and digital means like PC, browser, and internet connection.

		• Is documentation about the software needed to access the data included? In case of additional more demanding software, documentation on how to access will be included • Is it possible to include the relevant software (e.g. in open-source code)? In case of open-source SW or SW created within the project and not linked to background according to GA/C, yes. • Where will the data and associated metadata, documentation and code be deposited? Zenodo or similar. In cases it may be in beneficiaries' platforms (to optimize costs) • Have appropriate arrangements with the identified repository been explored? Yes • If there are restrictions on use, how will access be provided? Case by case decisions. As said above, beneficiary platforms are an option. Other arrangements for the project are to be investigated • Is there a need for a data access committee? No • Are the terms of access well described (e.g. a machine-readable license)? N/A • How will the identity of the person accessing the data be ascertained? N/A
	Making data interoperable	• Are the data produced in the project interoperable, that is allowing data exchange and re-use between researchers, institutions, organizations, countries, etc. (i.e. adhering to standards for formats, as much as possible compliant with available (open) software applications, and in particular facilitating re-

		<i>combinations with different datasets from different origins)?</i> Yes • <i>What data and metadata vocabularies, standards or methodologies will you follow to make the data interoperable?</i> NA • <i>Will standard vocabularies be used for all data types present in your dataset to enable interoperability across disciplines?</i> • <i>In case it is unavoidable that it uses uncommon ontologies or generates project specific ontologies or vocabularies, will it provide mappings to more commonly used ontologies?</i> There will be used formats and standard vocabularies for all data types present in the datasets, so it could be used by the public.
	Increase data re-use	• <i>How will the data be licensed to permit the widest possible re-use?</i> Data will be publicly available as part of the deliverables and could be accessed and re-used by the public indefinitely without a license. Insights published in scientific papers could be re-used for purposes of other research within the project or used by the public. • <i>When will the data be made available for re-use? If an embargo is sought to give time to publish or seek patents, specify why and how long this will apply, bearing in mind that research data should be made available as soon as possible.</i> Data collected and produced during the ACCELERATE project will be offered openly as soon as possible and/or according to agreements between the parties providing the data and the parties collecting and treating the data • <i>Are the data produced and/or used in the project usable by third parties, in particular after the end of the project? If the re-use of some data is restricted, explain why.</i>

		Reuse of results, publications, tools and methodologies delivered from this WP will be open access and free to use during and after the end of the project. • For how long is it intended that the data remains re-usable? At least the duration of the project. After according to resources. • Are data quality assurance processes described? Deliverables and data sets are checked by the Project's Quality manager and each WP/task leader and beneficiaries.
Allocation of resources		No additional costs are foreseen for making this dataset FAIR.
Data security		• What provisions are in place for data security (including data recovery as well as secure storage and transfer of sensitive data)? Data is going to be regularly backed up and secured. • Is the data safely stored in certified repositories for long term preservation and curation? Yes
Ethical aspects		• Are there any ethical or legal issues that can affect data sharing? These can also be discussed in the context of the ethics review. If relevant, include references to ethics deliverables and ethics chapter in the Description of the Action (DoA). No • Is informed consent for data sharing and long-term preservation included in questionnaires dealing with personal data?. Yes There is no ethical aspects or legal conditions
Other issues		• Will other national/funder/sectorial/departamental data management procedures be used? If yes, which are they? NA

3.6. DMP Components in WP6 - Dissemination & Communication

DMP component		Related issues
Data summary		Data generated within this WP is going to be used in order to: ● develop and implement an effective dissemination and communication strategy; ● improve the communication and dissemination activities; ● prepare materials, presentations, tutorials, scientific papers etc. Within this WP there created and shared data will be in .docx, .xlsx, .csv, .pptx, .jpg, .png, .gif and .pdf formats. The expected size of the files is not applicable. However, it is going to be meaningful. Reports will be collected from the partners regarding their performed dissemination activities. The data that will be collected will be statistics related to the project website and social media like LinkedIn and Twitter, for tracking the progress and improving the communication and dissemination activities. Presentations (.pptx) are going to be used during conferences, workshops, training etc. Images (.jpg, .png, .gif) are going to be used during presentations as well as on social media. Data will be useful for the project's participants and stakeholders due to the provision of consistent, meaningful and legible information on project results. What is more, the constant contact through social media is going to maintain public interest in the project.
FAIR DATA	Making data findable, including provisions for metadata	● <i>Are the data produced and/or used in the project discoverable with metadata, identifiable and locatable by means of a standard identification mechanism (e.g. persistent and unique identifiers such as Digital Object Identifiers)?</i> Yes ● <i>What naming conventions does it follow?</i> Processed results of this WP will be available via ACCELERATE website. The naming conventions used for these data will be:

		●DX.Y TITLE where, DX.Y is the number of the deliverable while TITLE is deliverable name. ●<i>Will search keywords be provided that optimize possibilities for re-use?</i> Yes ●<i>Does it provide clear version numbers?</i> Yes ●<i>What metadata will be created? In case metadata standards do not exist in the discipline, outline what type of metadata will be created and how.</i> DOI for publications, other data minimum date, author, organisation Scientific papers based on the data generated within this WP, would be published in open access journals. As a part of new created data, metadata will be generated. Deliverable's metadata will include: ●contributing Work Package names, ●task, ●deliverable Lead, ●authors, ●deliverable type, ●dissemination level, ●version number. It is supposed that within the process of generation data some new/additional parameters for metadata will be included. Appropriate keywords will be included.
	Making data openly accessible	● <i>Which data produced and/or used in the project will be made openly available as the default? If certain datasets cannot be shared (or need to be shared under</i>

		restrictions), why, clearly separating legal and contractual reasons from voluntary restrictions. NA • it is also possible for specific beneficiaries to keep their data closed if relevant provisions are made in the consortium agreement and are in line with the reasons for opting out. All the insights, conclusions and solutions developed within this WP will be made publicly available as part of the aforementioned deliverables and through the ACCELERATE website. Input data that were used and are part of beneficiaries' background will be used according to the GA, CA, and/or any other bilateral and or consortium agreement that is the most up to date. • How will the data be made accessible (e.g. by deposition in a repository)? zenodo repository. • What methods or software tools are needed to access the data? Data will be accessible with "simple" electronic and digital means like PC, browser, and internet connection. • Is documentation about the software needed to access the data included? In case of additional more demanding software, documentation on how to access will be included • Is it possible to include the relevant software (e.g. in open-source code)? In case of open-source SW or SW created within the project and not linked to background according to GA/C, yes. • Where will the data and associated metadata, documentation and code be deposited? Zenodo or similar. In cases it may be in beneficiaries' platforms (to optimize costs) • Have appropriate arrangements with the identified repository been explored? Yes
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		• <i>If there are restrictions on use, how will access be provided?</i> Case by case decisions. As said above, beneficiary platforms are an option. Other arrangements for the project are to be investigated • <i>Is there a need for a data access committee?</i> No • <i>Are the terms of access well described (e.g. a machine-readable license)?</i> N/A • <i>How will the identity of the person accessing the data be ascertained?</i> N/A
	Making data interoperable	• <i>Are the data produced in the project interoperable, that is allowing data exchange and re-use between researchers, institutions, organizations, countries, etc. (i.e. adhering to standards for formats, as much as possible compliant with available (open) software applications, and in particular facilitating re-combinations with different datasets from different origins)?</i> Yes • <i>What data and metadata vocabularies, standards or methodologies will you follow to make the data interoperable?</i> NA • <i>Will standard vocabularies be used for all data types present in your dataset to enable interoperability across disciplines?</i> NA • <i>In case it is unavoidable that it uses uncommon ontologies or generates project specific ontologies or vocabularies, will it provide mappings to more commonly used ontologies?</i> There will be used formats and standard vocabularies for all data types present in the datasets, so it could be used by the public.

	Increase data re-use	• <i>How will the data be licensed to permit the widest possible re-use?</i> Data will be publicly available as part of the deliverables and could be accessed and re-used by the public indefinitely without a license. Insights published in scientific papers could be re-used for purposes of other research within the project or used by the public. • <i>When will the data be made available for re-use? If an embargo is sought to give time to publish or seek patents, specify why and how long this will apply, bearing in mind that research data should be made available as soon as possible.</i> Data collected and produced during the ACCELERATE project will be offered openly as soon as possible and/or according to agreements between the parties providing the data and the parties collecting and treating the data • <i>Are the data produced and/or used in the project usable by third parties, in particular after the end of the project? If the re-use of some data is restricted, explain why.</i> Reuse of results, publications, tools and methodologies delivered from this WP will be open access and free to use during and after the end of the project. • <i>For how long is it intended that the data remains re-usable?</i> At least the duration of the project. After according to resources. • <i>Are data quality assurance processes described?</i> Deliverables and data sets are checked by the Project's Quality manager and each WP/task leader and beneficiaries.
	Allocation of resources	No additional costs are foreseen for making this dataset FAIR.
	Data security	• <i>What provisions are in place for data security (including data recovery as well as secure storage and transfer of sensitive data)?</i> Data is going to be regularly backed up and secured.

	• <i>Is the data safely stored in certified repositories for long term preservation and curation?</i> Yes
Ethical aspects	• <i>Are there any ethical or legal issues that can affect data sharing? These can also be discussed in the context of the ethics review. If relevant, include references to ethics deliverables and ethics chapter in the Description of the Action (DoA).</i> No • <i>Is informed consent for data sharing and long-term preservation included in questionnaires dealing with personal data?.</i> Yes There is no ethical aspects or legal conditions
Other issues	• <i>Will other national/funder/sectorial/departmental data management procedures be used? If yes, which are they?</i> NA

4. DMP updating schedule

The DMP will evolve over the lifecycle of the project and according to the project impact on data management and security. Updates of the DMP are thus planned in project-month 18 and 36 and will be submitted to the EU as an integral part of the Project Periodic Reports.

5. Closing remarks

The submitted DMP outlines the data to be used and defines the data management strategy for each WP.